## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

## ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/01/2005
PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

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3 <110> APPLICANT: Barany, Francis
        Day, Joseph P.
        Hammer, Robert P.
       Bergstrom, Donald E.
 8 <120> TITLE OF INVENTION: COUPLED POLYMERASE CHAIN REACTION-RESTRICTION
 9 ENDONUCLEASE DIGESTION-LIGASE DETECTION REACTION
10
         PROCESS
12 <130> FILE REFERENCE: 19603/481
14 <140> CURRENT APPLICATION NUMBER: 09/528,014A
15 <141> CURRENT FILING DATE: 2000-03-17
17 <150> PRIOR APPLICATION NUMBER: 60/125,251
18 <151> PRIOR FILING DATE: 1999-03-19
20 <160> NUMBER OF SEQ ID NOS: 36
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 50
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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31
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40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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51 <211> LENGTH: 25
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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59 <220> FEATURE:
60 <221> NAME/KEY: N region
61 <222> LOCATION: (25)
62 <223> OTHER INFORMATION: Where N is A,C,T,G or Q(n) analog
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DATE: 02/01/2005

TIME: 11:39:15

Input Set : A:\C481011.app Output Set: N:\CRF4\02012005\I528014A.raw 64 <400> SEQUENCE: 3 25 W--> 65 ttcttcctgc atgggcggca tgaan 68 <210> SEQ ID NO: 4 69 <211> LENGTH: 26 70 <212> TYPE: DNA 71 <213> ORGANISM: Artificial Sequence 73 <220> FEATURE: 74 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 77 <220> FEATURE: 78 <221> NAME/KEY: N region 79 <222> LOCATION: (26) 80 <223> OTHER INFORMATION: Where N is A,C,T,G or Q(n) analog 82 <400> SEQUENCE: 4 W--> 83 ttctgatgat ggtgaggatg ggcctn 26 86 <210> SEQ ID NO: 5 87 <211> LENGTH: 40 88 <212> TYPE: DNA 89 <213> ORGANISM: Artificial Sequence 91 <220> FEATURE: 92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 93 95 <400> SEOUENCE: 5 96 cttggacgag ttcatacgcg ttcctgcatg ggcggcatga 40 99 <210> SEQ ID NO: 6 100 <211> LENGTH: 38 101 <212> TYPE: DNA 102 <213> ORGANISM: Artificial Sequence 104 <220> FEATURE: 105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 108 <400> SEQUENCE: 6 38 109 gcaaactggg tcgccacgtg atgatggtga ggatgggc · 112 <210> SEQ ID NO: 7 113 <211> LENGTH: 19 114 <212> TYPE: DNA 115 <213> ORGANISM: Artificial Sequence 117 <220> FEATURE: 118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 121 <400> SEQUENCE: 7 122 cttggacgag ttcatacgc 19 125 <210> SEQ ID NO: 8 126 <211> LENGTH: 17 127 <212> TYPE: DNA 128 <213> ORGANISM: Artificial Sequence 130 <220> FEATURE: 131 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/528,014A

Oligonucleotide

132

RAW SEQUENCE LISTING DATE: 02/01/2005
PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

134 <400> SEQUENCE: 8 135 gcaaactggg tcgccac 17 138 <210> SEQ ID NO: 9 139 <211> LENGTH: 42 140 <212> TYPE: DNA 141 <213> ORGANISM: Artificial Sequence 143 <220> FEATURE: 144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 147 <400> SEQUENCE: 9 148 cttggacgag ttcatacgcg ttcctgcatg ggcggcatga at 42 151 <210> SEQ ID NO: 10 152 <211> LENGTH: 41 153 <212> TYPE: DNA 154 <213> ORGANISM: Artificial Sequence 156 <220> FEATURE: 157 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 160 <400> SEQUENCE: 10 161 gcaaactggg tcgccacgtg atgatggtga ggatgggcct t 41 164 <210> SEQ ID NO: 11 165 <211> LENGTH: 24 166 <212> TYPE: DNA 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 171 Oligonucleotide 173 <400> SEQUENCE: 11 174 aaaaaagcat gggcggcatg aaca 24 177 <210> SEQ ID NO: 12 178 <211> LENGTH: 22 179 <212> TYPE: DNA 180 <213> ORGANISM: Artificial Sequence 182 <220> FEATURE: 183 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 184 Oligonucleotide 186 <400> SEQUENCE: 12 187 aaaaqcatqq qcqqcatqaa cq 22 190 <210> SEQ ID NO: 13 191 <211> LENGTH: 20 192 <212> TYPE: DNA 193 <213> ORGANISM: Artificial Sequence 195 <220> FEATURE: 196 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Oligonucleotide 199 <400> SEQUENCE: 13 200 aagcatgggc ggcatgaact 20 203 <210> SEQ ID NO: 14

204 <211> LENGTH: 18

RAW SEQUENCE LISTING DATE: 02/01/2005
PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

- 205 <212> TYPE: DNA
- 206 <213> ORGANISM: Artificial Sequence
- 208 <220> FEATURE:
- 209 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 210 Oligonucleotide
- 212 <400> SEQUENCE: 14
- 213 gcatgggcgg catgaacc

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- 216 <210> SEQ ID NO: 15
- 217 <211> LENGTH: 22
- 218 <212> TYPE: DNA
- 219 <213> ORGANISM: Artificial Sequence
- 221 <220> FEATURE:
- 222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 223 Oligonucleotide
- 225 <400> SEOUENCE: 15
- 226 ggaggcccat cctcaccatc at

22

- 229 <210> SEQ ID NO: 16
- 230 <211> LENGTH: 60
- 231 <212> TYPE: DNA
- 232 <213> ORGANISM: Artificial Sequence
- 234 <220> FEATURE:
- 235 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 236 Oligonucleotide
- 238 <220> FEATURE:
- 239 <221> NAME/KEY: N region
- 240 <222> LOCATION: (30)
- 241 <223> OTHER INFORMATION: Where N is A,C,T,G
- 243 <400> SEQUENCE: 16

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- 247 <210> SEQ ID NO: 17
- 248 <211> LENGTH: 50
- 249 <212> TYPE: DNA
- 250 <213> ORGANISM: Artificial Sequence
- 252 <220> FEATURE:
- 253 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 254 Oligonucleotide
- 256 <400> SEOUENCE: 17
- 257 gttcctgcat gggcggcatg aactggaggc ccatcctcac catcatcaca 50
- 260 <210> SEQ ID NO: 18
- 261 <211> LENGTH: 50
- 262 <212> TYPE: DNA
- 263 <213> ORGANISM: Artificial Sequence
- 265 <220> FEATURE:
- 266 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 267 Oligonucleotide
- 269 <400> SEQUENCE: 18
- 270 gttcctgcat gggcggcatg aacgggaggc ccatcctcac catcatcaca 50
- 273 <210> SEQ ID NO: 19
- 274 <211> LENGTH: 50

RAW SEQUENCE LISTING DATE: 02/01/2005
PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

- 275 <212> TYPE: DNA
- 276 <213> ORGANISM: Artificial Sequence
- 278 <220> FEATURE:
- 279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 280 Oligonucleotide
- 282 <400> SEQUENCE: 19
- 283 gttcctgcat gggcggcatg aacaggaggc ccatcctcac catcatcaca 50
- 286 <210> SEQ ID NO: 20
- 287 <211> LENGTH: 50
- 288 <212> TYPE: DNA
- 289 <213> ORGANISM: Artificial Sequence
- 291 <220> FEATURE:
- 292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 293 Oligonucleotide
- 295 <400> SEQUENCE: 20
- 296 gttcctgcat gggcggcatg aatcgaaggc ccatcctcac catcatcaca 50
- 299 <210> SEQ ID NO: 21
- 300 <211> LENGTH: 50
- 301 <212> TYPE: DNA
- 302 <213> ORGANISM: Artificial Sequence
- 304 <220> FEATURE:
- 305 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 306 Oligonucleotide
- 308 <400> SEQUENCE: 21
- 309 gttcctgcat gggcggcatg aagcgcaggc ccatcctcac catcatcaca 50
- 312 <210> SEQ ID NO: 22
- 313 <211> LENGTH: 50
- 314 <212> TYPE: DNA
- 315 <213> ORGANISM: Artificial Sequence
- 317 <220> FEATURE:
- 318 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 319 Oligonucleotide
- 321 <400> SEQUENCE: 22
- 322 gttcctgcat gggcggcatg aaacgtaggc ccatcctcac catcatcaca 50
- 325 <210> SEQ ID NO: 23
- 326 <211> LENGTH: 50
- 327 <212> TYPE: DNA
- 328 <213> ORGANISM: Artificial Sequence
- 330 <220> FEATURE:
- 331 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
- 332 Oligonucleotide
- 334 <400> SEQUENCE: 23
- 335 gttcctgcat gggcggcatg aacatgaggc ccatcctcac catcatcaca 50
- 338 <210> SEQ ID NO: 24
- 339 <211> LENGTH: 50
- 340 <212> TYPE: DNA
- 341 <213> ORGANISM: Artificial Sequence
- 343 <220> FEATURE:
- 344 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/528,014A

DATE: 02/01/2005 TIME: 11:39:16

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 25

Seq#:4; N Pos. 26

Seq#:16; N Pos. 30

Seq#:32; N Pos. 25

Seq#:34; N Pos. 30

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/528,014A

DATE: 02/01/2005 TIME: 11:39:16

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0